547:722:667.633:26



The current work investigated the possibility for flow transfer of the Diels-Alder educt formation reactions between unsaturated oligoesters and furfuryl glycidyl ether. Interreacting reactions of carboxylic group of acid oligoesters with furfuryl glycidyl and furfuryl benzyl ether were also studied. All kinetics characteristic of these reactions were obtained. There polymers were obtained and their physic mechanical properties determined.

).

(

() [1-4].

[5 - 8].

,





. 1.

	[9],	-
	- 1,4810.	-
%.	(),	
	,	-
	().	

98,8 %

,

. . = 266.38 $J_2/100$., (),

. . = 0 / .,

27,32

,

 $n_{D}^{20} = 1.4410$



$$= -R \cdot \frac{T_1 \cdot T_2 \cdot \ln \frac{k_1}{k_2}}{T_2 - T_1},$$

$$(8.31 \cdot /); - , ; k - , ; k -$$



:

43





1.

,	, ^o	, $k, .^{-1}$, /
_	80	0,0819	
	60	0.03121	20,64
	40	0.00817	
	80	0,02043	22.8
_	60	0,01433	22,0
_	80	0,01835	
	60	0.00944	30,06
	40	0.00555	
	80	0,0051	41.07
_	60	0,00342	41,07





2.5

O

,

(. 5) . 2). (

(AlCl₃,





1 –

46

•

,	, \cdot^1
_	0,01223
_	0,00691

•

 $-3500 \div 3400$ ⁻¹ (. 6).

,







2

47

	,		
	_	_	—
	(2:3)	(5:6)	(2:3)
3 150°, .	1,5	1,5	2,5
,	0,35	0,18	0,25
,	50	50	50
,	1	1	1
,	1	1	1
, %	86	75	68



220 °,

,

 $t=450\ensuremath{\,^\circ}$.

,

1.

:

2	
7	•

: 1. 3562 1 31/00, 8L63/04. C . 3562 1 31/00, 8L63/04; . . : 20040806590; . 06. 08. 2004; . 15.11.2004; . . 11. 2. . ٠, ٠, // – 2005: IX , 13 – 16 . 2005 . – ; .; 2005. – . 275. **3.** . ., . ., . // . – 2005. – 5. - . 152 - 155. 4. ۰, . // . – 2006. – 4. - . 152 - 155. 5. James R., Da-

vid R. Removable Foams Based on an Epoxy Resin Incorporating Reversible Diels–Alder Adducts. // Journal of Applied Polymer Science. – 2002. – Vol. 85. – . 1496 – 1502. 6. *Gheneim R., Perez-Berumen C., Gandini*. Diels-Alder Reactions with Novel Polymeric Dienes and Dienophiles: Synthesis of Reversibly Cross-Linked Elastomers. // Macromolecules. – 2002. – Vol. 35, 19. – . 7246 – 7253.
7. *Kamahori*., *Tada Sh., Ito*., *Itsuno Sh.* Optically Active Polymer Synthesis by Diels–Alder Polymerization with Chirally Modified Lewis Acid Catalyst. // Macromolecules. – 1999. – Vol. 32, 3. – P. 541 – 547. 8. *Gandini A., Belgacem M.N.* Furan in Polymer Chemistry. // Prog. Polym. Sci. – 1997. – Vol. 22. – . 1203 – 1379. 9.

- . 920 - 924.

. // . . . - 1967. - . 33, 9.

30.10.07